Bijlage 8: Track Information Science (Overzichten toetsing per vak / leeruitkomsten per vak)

De meeste vakken hanteren wekelijkse of tussentijdse opdrachten waarvoor er in principe geen herkansingen zijn, omdat deze opdrachten bedoeld zijn als formatieve toetsing. Als opdrachten meetellen in het eindcijfer is er in overleg met de docent een mogelijkheid tot herkansing.

Semester 1		Block 1		Block 2			
Module	Code	Classes	Examination	Resit	Classes	Examination	Resit
Research Seminar	LIX018M05		Literature	Literature		Master Thesis	Master Thesis
Information			review	review		Proposal	Proposal
Science							
Shared Task	LIX026M05		Assignments	Assignments		Final Project	Final Project
Information						Report	Report
Science							
Semantic Web	LIX002M05	Weekly	Final project	Final project			
Technology		assignments					
Learning from	LIX016M05	Weekly	Final project	Final project			
Data		assignments					
Speech Science	[TBD]	Assignments	Final report	Final report			
Semest	ter 1	Block 2		Block 3			
Module	Code	Classes	Examination	Resit	Classes	Examination	Resit
Computational	LIX021M05	Weekly	Final Project				Final Project
Semantics		assignments					

Computer-	LIX022M05		Written Exam	Research			Written Exam
Mediated			and Research	Report			
Communication			Report				
Semest	ter 2		Block 3			Block 4	
Module	Code	Classes	Examination	Resit	Classes	Examination	Resit
User Interface	LIX024M05	Assignments	Final Report	Final Report			
Evaluation							
Natural Language	LIX001M05	Weekly	Written Exam				Written Exam
Processing		assignments					
Language	LIX025M05					Research paper	Research paper
Technology						presentation,	presentation,
Project						the project	the project
						presentation,	presentation,
						the project	the project
						report and	report and
						participation.	participation.
Conversational	LCX070M05					(1) the group	(1) the group
Interfaces:						report; (2) your	report; (2) your
Practice						individual	individual
						addendum; and	addendum; and
						(3) the	(3) the
						developed	developed
						system.	system.

Ma-scriptie	LCX998M20	(The student		Master Thesis	Master Thesis
Informatiekunde		works the			(If thesis grade
		whole semeste			is not
		on his/her			sufficient)
		thesis)			
Ma-stage	LCX900M10	The student		Internship	Internship
Informatiekunde		does an		report	report
		internship			
		during the			
		whole semeste			

		semester I	
Vakcode	Vaknaam	Beoogde leeruitkomsten	Wijze van toetsen
LIX018M05	Research	Upon successful completion of the course unit, students are able to read	• A literature review
	Seminar	critically advanced scientific papers, and sustain discussions about them	• A master thesis proposal, and its
	Information Science	(2.1,2.2,3.1,3.2,3.3).	presentation in the seminar
	Science	They are up to date with recent developments in NLP and CL (1.1,1.2),	
		which are fast moving fields, and are able to prepare a detailed and critical	
		literature review on a topic of interest (2.1,2.2,2.4,2.5,5.1,5.2). They	
		understand how research is done by researchers in the field, both	
		interacting with RuG staff as well as international guests.	
		They are able to prepare a master thesis proposal and present it	
		(2.1,2.2,2.4,2.5,3.1,3.2,3.3), thus including dealing with a QA session	
		about their proposed research work (4.1, 4.2).	
LIX026M05	Shared Task	Upon successful completion of the course unit, students are able to	Assignments, Final Project report.
	Information	1. Work in a team to solve a concrete computational problem in	There will be 3 graded assignments in the
	Science	information science (1.1, 1.3, 4.1)	first block (1a). All assignments must
		2. Translate the theoretical knowledge acquired to a practical	obtain a sufficient grade (5,5 or higher).
		implementation (2.1, 2.2,.3)	No compensation is allowed.
		3. Develop novel approaches and compare to the state-of-the-art (3.2) (2.4,	The Final Project report needs to follow
		3.2,5.2)	the guidelines of the shared task itself, it
		4. Learn to work independently with minimal supervision from the teacher	should be written in English, and in the
		(2.5, 3.3)	style of an academic article.
		5. Learn to write a scientific paper (and meets the required standards) (5.1)	

LIX002M05	Semantic Web Technology	Leerdoelen van het studieonderdeel (eindtermen op moduleniveau) 1. Ability to work with semantic web languages and tools (processing RDF, querying RDF using SPARQL, RDF and OWL ontology development using Protégé). [1.1, 2.1, 2.2] 2. Ability to integrate these skills with general programming skills in the implementation of a demonstrator that uses semantic web technology. [1.2,1.3, 2,3, 2.4, 2.5, 3.2, 4.1] 3. Critical understanding of the motivation and concepts underlying the development of the semantic web. [1.2]	Weighting: all weekly assignments are weighted 10%. The final grade is the average of the weekly assignments (30%) and the project grade (70%).
LIX016M05	Learning from Data	4. Familiarity with influential data sources, in particular DBpedia. [1.1] The course has a strong focus on practice, so that students are expected to be able to practically run machine learning experiments on a given (NLP) problem. They will master key concepts and terminology of machine learning, understand training and testing procedures, and use existing tools that support machine learning experiments - more specifically, they will become accustomed to using existing libraries and software, and preparing data for it. [1.1, 2.1, 2.2] In setting up an experiment for a given task, they will be able to decide how to represent a problem, choose and implement features for learning and an appropriate algorithm, and interpret the results critically, by understanding evaluation metrics as well as possible sources of errors (overfitting, little data, etc). [2.5, 3.3] They will also know how to appropriately report on the experiments they run, as it is done in academic publications. [4.1]	The final assessment is based on weekly assignments given to the students throughout the course and on a final project.
LIX021M05	Computational Semantics	The student who masters the theory and techniques given in this course will be in a good position to appreciate and critically assess ongoing developments in computational semantics and semantic annotation (1.1). After the course the student is able to give a formal semantic analysis of a	You get a grade for the five assignments, and a grade for the group project.

		fragment of natural language (1.2) and also provide a compositional	
		semantics of a (simple) sentence using the lambda calculus (2.1). The	
		student has a good understanding of all these techniques from	
		computational semantics and lexical resources to apply them in a practical	
		application (3.1), and a critical awareness of the possibilities and	
		limitations of first-order logic applied to concrete language understanding	
		problems (5.1, 5.2).	
LIX022M05	Computer-	Upon successful completion of the course unit, students are able to (related to the	- Final research assignment (in groups of 2
	Mediated	Dublin Descriptors 1.2 – 1.3, 2.1 – 2.5, 3.1, 4.1, 5.2):	students) (50%); grades are assigned to
	Communication	(i) Describe the main concepts introduced in the course:	research content (60%), research report
		Knowledge sharing	(20%), research oral presentation (20%)
		Enterprise social media	- Final individual written exam (50%)
		Social network analysis	
		Social network visualization	
		Computer-mediated communication	
		Computer-mediated communication competence	
		(ii) Explain the relations between the main concepts introduced;	
		(iii) Recognize and identify the affordances and barriers of computer-mediated	
		communication systems in general for knowledge sharing, and in particular those	
		of enterprise social media;	
		(iv) Illustrate the process of online knowledge sharing by giving concrete	
		examples;	
		(vi) Analyze online knowledge sharing by using social network analysis and	
		visualization;	
		(vii) Evaluate the communicative effectiveness of online knowledge sharing;	

		(viii) Propose strategies to optimize online knowledge sharing, from a computer-	
		mediated communication view.	
[TBD]	Speech	Upon successful completion of the course unit, students are able to:	Four lab assignments (each graded 0-2 points)
	Science	1. Identify components of an acoustic speech signal and describe their relation to	and a final assignment. Average lab
		physiological/anatomical components of the speech system. (Learning outcomes:	assignment corresponds to 40% of the grade,
		1.1 and 1.2).	the final assignment (graded 0-10)
		2. Independently design appropriate methods for speech data collection and	corresponds to 60% of the grade. A resit is
		analyses for typical and pathological speech. Specifically, students will be able to	possible for each assignment.
		determine which speech measures are best suited for a specific research question.	
		(Learning outcomes: 1.1, 1.2, 2.1, 2.2)	
		3. Reflect on the validity and reliability of both data collection and analyses for	
		speech research (Learning outcome: 3.1, 5.1)	
		4. Evaluate a case study in speech research(Learning outcome: 3.2, 4.1)	
		semester II	
Vakcode	Vaknaam	Beoogde leeruitkomsten	Wijze van toetsen
LIX999M20	Ma-scriptie	Afhankelijk van het onderwerp en gebruikte methode van de scriptie. Zie	Master-scriptie
	Informatiekunde	voor de beoordelingscriteria het beoordelingsformulier.	
LIX000M10	Ma-stage	Afhankelijk van het onderwerp en gebruikte methode van de stage. Zie	Een stageonderzoek bij een organisatie.
	Informatiekunde	voor de beoordelingscriteria de formulieren die het stagebureau hanteert.	
LIX001M05	Natural Language	The goal of the course is to ensure that students are familiar with a number	Students are assessed based on the
	Processing	of very fundamental techniques and algorithms in the area of natural	portfolio and an exam.
			1
		language processing, in particular for regular expressions, statistical	

LIX024M05	User Interface	1. Explain what Usability Engineering is, understand and articulate which	The final course grade is predominantly
	Evaluation	phases are involved in this kind of engineering process to ensure that	based on the final report. [] Knowledge
		usable software is produced that meet user requirements, identify different	and insight are assessed in the
		methods, techniques and strategies to use in this process, and understand	substantiations in assignments and in the
		the relationship between the different tasks that belong to the usability	final report. The designs proposed for the
		engineering lifecycle model (Knowledge and Insight) [1.1, 1.2, 1.3]	problem statement introduced in this
		2. Apply knowledge and insights to a Case Study, provided by someone	course demonstrate how well students
		from the ICT workfield. Each year the problem statement can be different.	apply knowledge, insight, and process
		(Application of knowledge and Insight) [2.1, 2.2, 2.3, 2.4, 2.5]	feedback. Overall critical thinking is
		3. Reflect on design and design process by processing feedback from	assessed throughout the design process, in
		experts in the workfield, and substantiate choices and decisions made	particular in the substantiations of choices
		during the design process (Judgment) [2.2]	to be made, and decisions to be taken.
		4. Present their design and its substantiation orally, visually, and textually	Various forms of communication (esp.
		to experts in the workfield, and usability specialists (Communication)	poster and final report) are assessed with
		[4.1]	respect to coherence and consistency of
		5. Adequately use knowledge, insights, and skills obtained to similar	content, clarity, comprehensibility,
		design problems in various fields (Learning Skills) [2.3]	accuracy, adequacy, and completeness for
			academic and practical purposes.
LCX070M05	Conversational	Upon successful completion of the course unit, students are able to (where	The final grade of this course will be
	Interfaces: Practice	the numbers in brackets refer to the Dublin descriptors cited in the	based on three deliverables: (1) the group
		Learning Outcomes of the Master Programme Communication and	report; (2) your individual addendum; and
		Information Studies):	(3) the developed system. Each of this
			component will be graded on

		• Implement empirical methods for data collection involving Wizard of Oz	the scale of 1 to 10. The final grade is the
		and human subjects (2.1; 2.3);	average of these three grades.
		• Conduct a task-based evaluation of a particular dialogue strategy (cf.	
		Turing test) (2.1; 2.2; 2.5);	
		• Present their own research via oral and written reports (4.1; 4.2).	
LIX025M05	Language	Upon successful completion of the course unit, students are able to:	Students are assessed based on the
	Technology	1. Understand recent developments in the field of Natural Language	research paper presentation, the project
	Project	Processing, mainly those related to the application of neural networks to	presentation, the project report and
		this field (IS 1.1).	participation.
		2. Apply the knowledge acquired to solve well delimited practical	
		exercises in the field of Natural Language Processing (IS 2.2).	
		3. Tackle an open challenge in Natural Language Processing (IS 5.1).	
		4. Communicate to peers the results of research conducted by the student	
		him/herself (course project) and by others (research papers) (IS 4.1).	
		5. Assess critically their own research (course project) and research	
		conducted by others (research papers) (IS 3.2).	